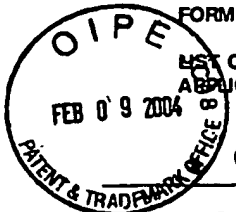


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FOREIGN PATENT DOCUMENTS

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1L				
1M				
1N				
1O				
1P				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

LI	1Q	Sugih JAMIN, Cheng JIN, Anthony R. KURC, Danny RAZ and Yuval SHAVITT, Constrained Mirror Placement on the Internet, INFOCOM, 2001.
LF	1R	Magnus KARLSSON and Christos KARAMANOLIS, Bounds on the Replication Cost for QoS, Technical Report HPL-2003-156, Hewlett-Packard Company, Palo Alto, CA, July 24, 2003. < http://www.hpl.hp.com/techreports/2003/HPL-2003-156.pdf >
LF	1S	Lili QIU, Venkata N. PADMANANABHAN and Geoffrey M. VOELKER, On the Placement of Web Server Replicas, INFOCOM, 2001.

EXAMINER

[Signature]

DATE CONSIDERED

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	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

LF	2Q	Raj TEWARI and Nabil R. ADAM, Distributed File Allocation with Consistency Constraints, 1992.
LF	2R	Arun VENKATARAMANI, Phoebe WEIDMANN, and Mike DAHLIN, Bandwidth Constrained Placement in a WAN, 2001.
LF	2S	Alec WOLMAN, Geoffrey M. VOELKER, Nitin SHARM, Neal CARDWELL, Anna KARLIN, and Henry M. LEVY, On the Scale and Performance of Cooperative Web Proxy Caching, Proceedings of the 17th ACM Symposium on Operating Systems Principles, Kiawah Island, SC, pages 16-31, ACM Press, New York, NY, 1999.

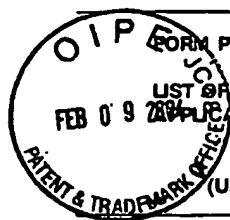
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	3L					
	3M					
	3N					
	3O					
	3P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

LF	3Q	Kamal JAIN, Mohammad MAHDIAN, Evangelos MARKAKIS, Amin SABERI, and Vijay V. VAZIRANI, Greedy Facility Location Algorithms Analyzed Using Dual Fitting With Factor-Revealing LP, ArXiv, Cornell University, Ithica, NY, July 9, 2002. < http://arxiv.org/PS_cache/cs/pdf/0207/0207028.pdf >
LI	3R	P. KRISHNAN, Danny RAZ, and Yuval SHAVITT, The Cache Location Problem, IEEE/ACM Transactions on Networking, Volume 8, Number 5, Pages 568-582, ACM Press, New York, NY, October 2000.
LI	3S	Magnus KARLSSON, Christos KARAMANOLIS, and Mallik MAHALINGAM, A Framework for Evaluating Replica Placement Algorithms, Technical Report, HPL-2002-219, Hewlett-Packard Company, Palo Alto, CA, August 16, 2002. < http://www.hpl.hp.com/techreports/2002/HPL-2002-219.pdf >

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DATE CONSIDERED

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		4L				
		4M				
		4N				
		4O				
		4P				

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CF	4Q	Magnus KARLSSON, and Mallik MAHALINGAM, Do We Need Replica Placement Algorithms in Content Delivery Networks?, Technical Report HPL-2002-220, Hewlett-Packard Company, Palo Alto, CA, August 16, 2002. < http://www.hpl.hp.com/techreports/2002/HPL-2002-220.pdf >
CF	4R	Sridhar RAJAGOPALAN, and Vijay V. VAZIRANI, Primal-dual RNC Approximation of Covering Integer Programs, 1999.
CF	4S	Haifeng YU, and Amin VAHDAT, Minimal Replication Cost for Availability, July 2002.

EXAMINER

DATE CONSIDERED

12/6/05

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	5L					
	5M					
	5N					
	5O					
	5P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

45	5Q	Samy MAHMOUD and J. S. RIORDON, Optimal Allocation of Resources in Distributed Information Networks, ACM Transactions on Database Systems, Volume 1, Number 1, pages 66-78, ACM Press, New York, NY, March 1976.
45	5R	Mark S. DASKIN and Susan H. OWEN, Partial Covering P-Center and Partial Covering Set Covering Models, Presentation, International Symposium on Location Decisions (ISOLDE VIII), Portugal, June, 23-29, 1999.
45	5S	Susan Hesse OWEN and Mark S. DASKIN, Strategic Facility Location: A Review, Volume 111, Issue 3, pages 423-447, European Journal of Operational Research, Elsevier Science B.V., Amsterdam, Netherlands, 1998.

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	6L					
	6M					
	6N					
	6O					
	6P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CF	6Q	Lawrence W. DOWDY, Derrell V. FOSTER, Comparative Models of the File Assignment Problem, ACM Computing Surveys (CSUR), Volume 14, Number 2, Pages 287 - 313, ACM Press, New York, NY, June 1982.
CF	6R	Pierre CHARDAIRE, Facility Location Optimization and Cooperative Games, Ph.D. Thesis, pages 46-62, Chapter 3 and Pages 175-184, Bibliography, School of Information Systems, University of East-Anglia, Norwich UK, 1998.
CF	6S	Magnus KARLSSON and Christos KARAMANOLIS, 10/698,263, October 30, 2003. (Attorney Docket Number 200311960-1)

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	7L					
	7M					
	7N					
	7O					
	7P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

64	7Q	Christos KARAMANOLIS, and Magnus KARLSSON 10/698,264, October 30, 2003. (Attorney Docket Number 200311962-1)
45	7R	Magnus KARLSSON and Christos KARAMANOLIS, 10/698,265, October 30, 2003. (Attorney Docket Number 200312448-1)
	7S	

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